

b) Amendments to the Claims

Kindly cancel claims 1, 2, 4 and 5 without prejudice or disclaimer of subject matter. A detailed listing of all the claims that are or were in the application follows.

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Original) A thin film forming method, comprising the steps of:
employing a surface of a substrate as one electrode and disposing the surface of the substrate in a distance d (cm) apart from another electrode in a discharge space in which there are positioned at least a pair of electrodes connected to an RF power source;

introducing a gas containing one or more silicon compounds and hydrogen into the discharge space;

setting the product Pd of a film forming pressure P (Pa) and d and the ratio M/V of hydrogen flow rate M (SLM) to volume V (cm³) of the discharge space so as to meet the relation:

$$4 \times 10^5 \text{ dM/V} + 200 \leq \text{Pd} \leq 8 \times 10^5 \text{ dM/V} + 333; \text{ and}$$

applying RF power to generate a plasma and to form a non-monocrystal silicon thin film on the substrate in the discharge space.

7. (Original) The thin film forming method as set forth in claim 6, wherein said product Pd and flow rate L (SLM) of a gas mixture comprising said gas containing one or more silicon compounds and hydrogen divided by said volume V (cm³) are set so as to meet the relation:

$$3.3 \times 10^5 \text{ dL/V} + 200 \leq \text{Pd} \leq 7.3 \times 10^5 \text{ dL/V} + 333.$$

8. (Original) The thin film forming method as set forth in claim 6, wherein said distance d lies in a range of 0.5 to 3 cm.

9. (Original) The thin film forming method as set forth in claim 6, wherein said hydrogen flow rate M ranges from 500 sccm to 10000 sccm.

10. (Original) The thin film forming method as set forth in claim 6, wherein a flow rate of said gas containing one or more of said silicon compounds ranges from 10 sccm to 1000 sccm.--